

TABLE 2306.3.1a
RECOMMENDED SHEAR (POUNDS PER FOOT) FOR NAILED WOOD STRUCTURAL PANEL DIAPHRAGMS
WITH FRAMING OF SPRUCE-PINE-FIR (SPECIFIC GRAVITY = 0.42) FOR WIND OR SEISMIC LOADING

PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS	COMMON NAIL SIZE	MINIMUM FASTENER PENETRATION IN FRAMING (inches)	MINIMUM NOMINAL WIDTH OF FRAMING MEMBER (inches)	BLOCKED DIAPHRAGMS Fastener spacing (inches) at diaphragm boundaries (all cases) at continuous panel edges parallel to load (Cases 3, 4), and at all panel edges (Cases 5 and 6) ^b				UNBLOCKED DIAPHRAGMS	
									Fasteners spaced 6" max. at supported edges ^b	
					6	4	2- ¹ / ₂ ^c	2 ^c	Case 1 (No unblocked edges or continuous joints parallel to load)	All other configurations (Cases 2, 3, 4, 5 and 6)
					Fastener spacing (inches) at other panel edges (Cases 1, 2, 3 and 4) ^b					
					6	6	4	3		
Structural 1 Grades	5/16	6d ^e	1 1/4	2	0	0	0	0	0	0
				3	0	0	0	0	0	0
	3/8	8d	1 3/8	2	0	0	0	0	0	0
				3	0	0	0	0	0	0
	15/32	10d ^d	1 1/2	2	0	0	0	0	0	0
				3	0	0	0	0	0	0
Sheathing, Single Floor and Other Grades Covered in DOC PS I and PS 2	5/16	6d ^e	1 1/4	2	0	0	0	0	0	0
				3	0	0	0	0	0	0
	3/8	6d ^e	1 1/4	2	0	0	0	0	0	0
				3	0	0	0	0	0	0
		8d	1 3/8	2	0	0	0	0	0	0

			3	0	0	0	0	0	0
7/16	8d	1 3/8	2	0	0	0	0	0	0
			3	0	0	0	0	0	0
15/32	8d	1 3/8	2	0	0	0	0	0	0
			3	0	0	0	0	0	0
	10d ^d	1 1/2	2	0	0	0	0	0	0
			3	0	0	0	0	0	0
19/32	10d ^d	1 1/2	2	0	0	0	0	0	0
			3	0	0	0	0	0	0

For SI: 1 inch 25.4 mm, 1 pound per
foot = 14.5939 N/m.

For foot notes, see Table
2306.3.1

TABLE 2306.3.1b
RECOMMENDED SHEAR (POUNDS PER FOOT) FOR STAPLED WOOD STRUCTURAL PANEL DIAPHRAGMS
WITH FRAMING OF SPRUCE-PINE-FIR (SPECIFIC GRAVITY = 0.42) FOR WIND OR SEISMIC LOADING

PANEL GRADE	MINIMUM NOMINAL PANEL THICKNESS (inch)	STAPLE ^f LENGTH AND GAGE	MINIMUM FASTENER PENETRATION IN FRAMING (inches)	MINIMUM NOMINAL WIDTH OF FRAMING MEMBER (inches)	BLOCKED DIAPHRAGMS				UNBLOCKED DIAPHRAGMS	
					Fastener spacing (inches) at diaphragm boundaries (all cases) at continuous panel edges parallel to load (Cases 3, 4), and at all panel edges (Cases 5 and 6) ^b				Fasteners spaced 6" max. at supported edges ^b	
					6	4	2- ¹ / ₂ ^c	2 ^c	Case 1 (No unblocked edges or continuous joints parallel to load)	All other configurations (Cases 2, 3, 4, 5 and 6)
					Fastener spacing (inches) at other panel edges (Cases 1, 2, 3 and 4) ^b					
					6	6	4	3		
Structural 1 Grades Sheathing, Single Floor and Other Grades Covered in DOC PS I and PS 2	5/16	1 1/2	1	2	0	0	0	0	0	0
		16 Gage		3	0	0	0	0	0	0
	3/8	1 1/2	1	2	0	0	0	0	0	0
		16 Gage		3	0	0	0	0	0	0

15/32	1 1/2	1	2	0	0	0	0	0	0
	16 Gage		3	0	0	0	0	0	0

For SI: 1 inch 25.4 mm, 1 pound per
foot = 14.5939 N/m.

For foot notes, see Table
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